	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errs
1	IS&R	410	(164/457).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 14:12			0
2	IS&R	102	(164/155.2).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 10:35			0
3	IS&R	442	(164/4.1).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 10:36			0
4	IS&R	306	(164/119).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 12:43			0
5	IS&R	338	(164/306).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 13:10			0
6	IS&R	482	(164/133).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 13:45			0
7	IS&R	145	(164/135).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 13:50			0
8	IS&R	330	(164/136).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 13:50			0
9	IS&R	279	(164/335).CCLS.	USPAT; US-PGPUB; EP ; JP ; DERWENT	2003/01/03 14:24			0

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
10	IS&R	633	(164/337).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/03 14:24			0

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error or Definition	Errors
11	IS&R	69	((("2847739") or ("3302254") or ("3425483") or ("3768542") or ("2990592") or ("3196501") or ("3302253") or ("3532154") or ("4008749") or ("4047558") or ("4085791") or ("4213494") or ("3861457") or ("4050503") or ("4252173") or ("3842893") or ("4030538") or ("4714102") or ("4860820") or ("4967827") or ("4671342") or ("5178009") or ("5597032") or ("3951199") or ("4143687") or ("5022458") r ("5205346") r ("5385200") r ("5111871") or ("5188164") or ("5224533") r ("5241701703/2003, EAST Version: 1.03.0002	USPAT	2003/01/03 14:53			0

WEST Search History

DATE: Friday, January 03, 2003

<u>Set Name</u> <u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set

DB=JPAB,EPAB,DWPI; PLUR=YES; OP=OR

Set Name	Query	Hit Count	Set Name
L22	(((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and pressure	81	L22
L21	(((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and pressure and (signal or control$3 or measur$3 or transducer)	44	L21
L20	(((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and pressure and time and (signal or control$3 or measur$3 or transducer)	18	L20
L19	(((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and ((pressure near10 time) near20 (signal or control$3 or measur$3 or transducer))	1	L19

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

Set Name	Query	Hit Count	Set Name
L18	(((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and ((pressure near10 time) near20 (signal or control$3 or measur$3 or transducer))	41	L18

DB=USPT; PLUR=YES; OP=OR

Set Name	Query	Hit Count	Set Name
L17	l3 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and ((pressure near10 time) near20 (signal or control$3 or measur$3 or transducer))	34	L17
L16	l3 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and ((pressure near20 time) near20 (signal or control$3 or measur$3 or transducer))	41	L16
L15	l3 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and ((pressure near20 time) near50 (signal or control$3 or measur$3 or transducer))	42	L15
L14	l3 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and ((pressure near20 time) near50 (signal or control$3))	40	L14
L13	l3 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and (pressure near20 time) and (signal or control$3)	125	L13
L12	l3 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and pressure and time and (signal or control$3)	389	L12
L11	l3 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and pressure and time	436	L11

}

L10	13 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold and pressure	477	L10
L9	13 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and ((velocity or rate) near20 (fill$3 or pour$3)) and mold	688	L9
L8	13 and (((molten or liquid) near3 metal) near10 (fill$3 or pour$3)) and mold	3569	L8
L7	13 and (((molten or liquid) near3 metal) near20 (fill$3 or pour$3)) and mold	3655	L7
L6	13 and ((molten or liquid) near3 metal) and mold and (fill$3 or pour$3)	4925	L6
L5	13 and ((molten or liquid) near3 metal) and mold	5991	L5
L4	13 and ((molten or liquid) near3 metal)	7711	L4
L3	l1 or l2	99535	L3
L2	(((222/$)![CCLS]))	74260	L2
L1	((164/$)![CCLS])	26034	L1

END OF SEARCH HISTORY

WEST

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L20: Entry 5 of 18   File: JPAB   Apr 20, 1993

PUB-NO: JP405096356A
DOCUMENT-IDENTIFIER: JP 05096356 A
TITLE: METHOD AND APPARATUS FOR PRESSURE CONTROLLED CASTING

PUBN-DATE: April 20, 1993

INVENTOR-INFORMATION:
NAME   COUNTRY
MINAMI, NORIO
HAMA, YASUO
WATANABE, HIROSHI

ASSIGNEE-INFORMATION:
NAME   COUNTRY
HITACHI METALS LTD

APPL-NO: JP03257937
APPL-DATE: October 4, 1991

US-CL-CURRENT: 164/119; 164/306
INT-CL (IPC): B22D 18/06; B22D 39/06; B22D 21/04

ABSTRACT:

PURPOSE: To obtain a high quality casting by making rising velocity of the differential pressure comparatively slow at the time of starting filling-up of molten metal into a cavity in a mold and successively, adding the differential pressure to a feeder head after the completion of the filling-up confirms with a detecting means arranged at the last filling part in the cavity.

CONSTITUTION: The atmospheric pressures in a holding furnace 1 in a pressure vessel 2 and in the mold 5 are independently controlled and the molten metal in the holding furnace 1 is filled up into the cavity in the mold 3 through a stoke 5 with the differential pressure. At the time of starting the filling-up of the molten metal into the cavity, the rising velocity of the differential pressure is made to comparatively slow, and after the completion of the filling-up confirms with the detecting means S for the filling-up of the molten metal arranged at the last filling part in the cavity, successively the differential pressure for feeder head is added. By this method, the change-over timing from the pressurization for filling up to the pressurization for feeder head is made to suitable, and as the molten metal is filled up in so comparatively slow velocity as not to develop the disturbance of the molten metal and entrapping of gas in the cavity, the high quality casting can be obtd.

CLIPPEDIMAGE= JP403155447A

PAT-NO: JP403155447A

DOCUMENT-IDENTIFIER: JP 03155447 A

TITLE: METHOD AND INSTRUMENT FOR DETECTING
ABNORMALITY IN LOW PRESSURE CASTING
METHOD

PUBN-DATE: July 3, 1991

INVENTOR-INFORMATION:
NAME
ANAMI, MASAHARU

ASSIGNEE-INFORMATION:
NAME   COUNTRY
TOYOTA MOTOR CORP   N/A

APPL-NO: JP01291110

APPL-DATE: November 10, 1989

INT-CL (IPC): B22D018/04;B22D018/08 ;B22D046/00

US-CL-CURRENT: 164/119,164/150.1 ,164/151 ,164/306

ABSTRACT:

PURPOSE: To prevent damage, etc., in a low pressure casting
machine by
obtaining tolerance in heating air flow rate at the next casting
cycle,

c mparing th pr ssuriz d air fl w rat at th tim   f actually
pr ssurizing
with th ab ve fl w rate and d t cting wh th r the pressuriz d
air l aks r
not.

CONSTITUTION: The pressurized air flow rate for pushing up
molten metal 3 is
measured with flow rate measuring means 21. Based on the flow
rate in the some
casting cycle, the tolerance in the pressurized air flow rate at
the next
casting cycle is obtd. with arithmetic means 23. The pressurized
air flow rate
at the time of actually pressurizing in the next casting cycle and
the
tolerance in the pressurized air flow rate obtd. with the
arithmetic means 23
are compared with decision means 24 to detect whether the
pressurized air leaks
or not. By this method, the product having high quality can be
manufactured.